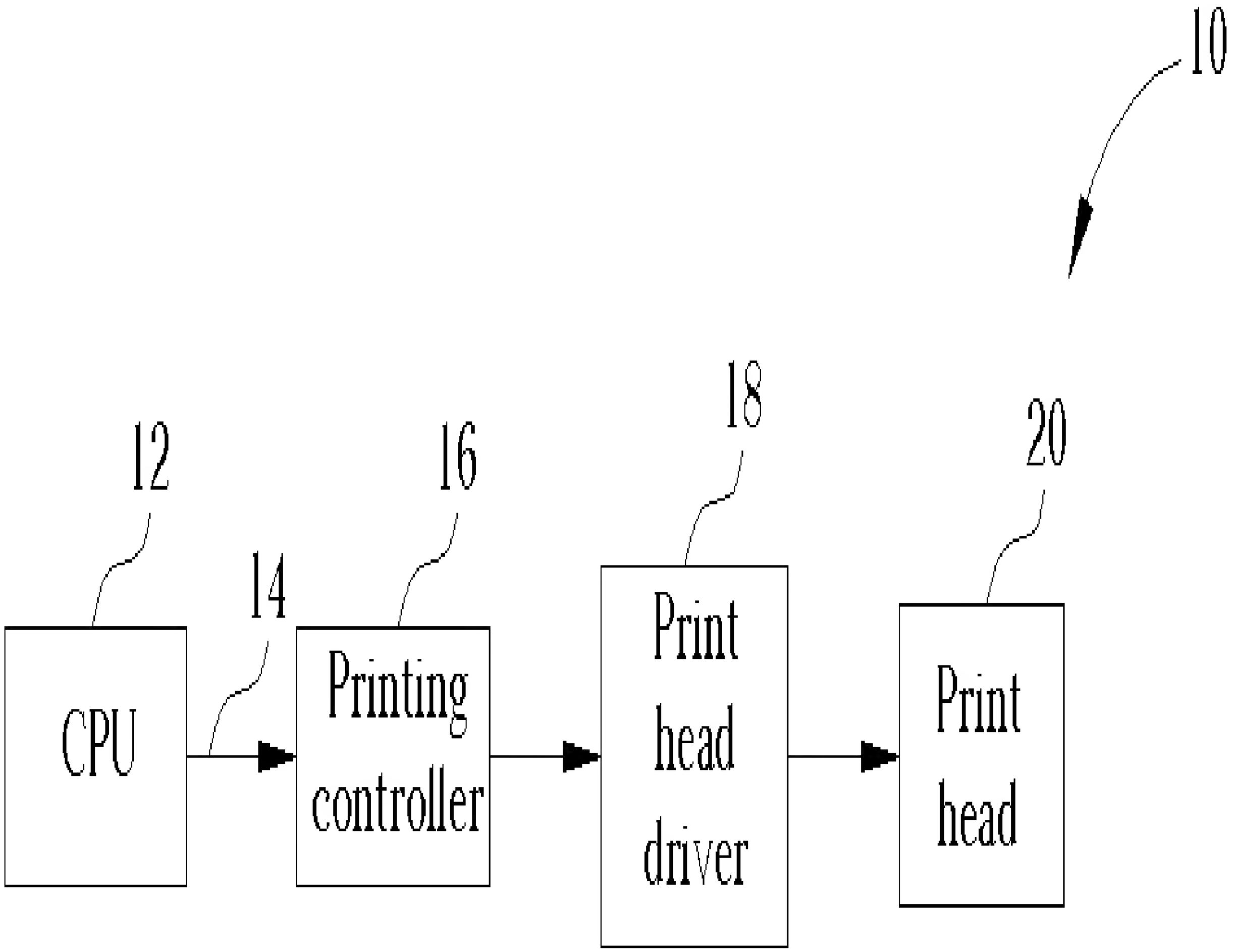

Fig. 1 Prior Art

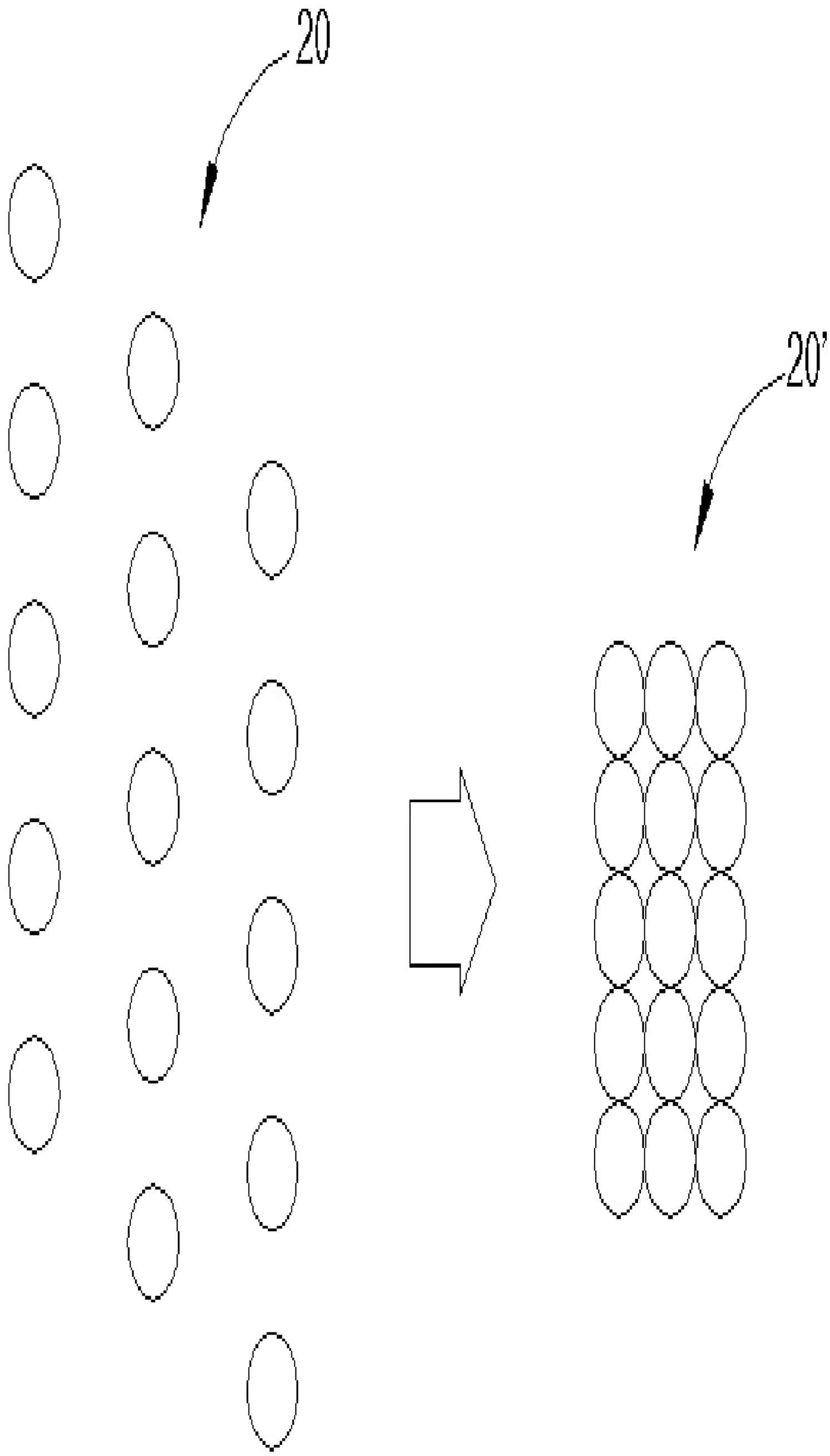

Fig. 2 Prior Art

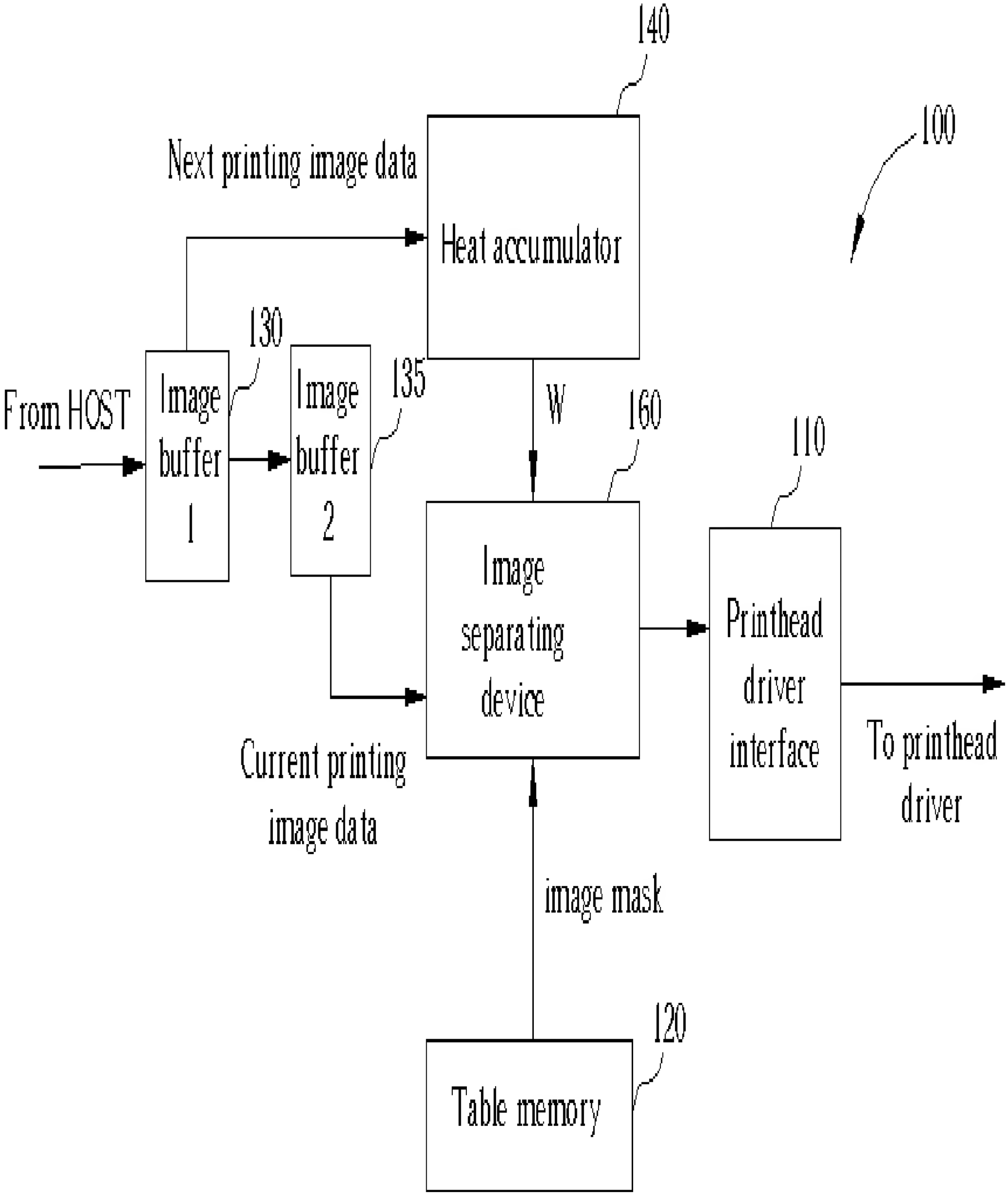
140
100
Next printing image data
Heat accumulator
130
135
From HOST
Image buffer 1
Image buffer 2
W
160
110
Image separating device
Printhead driver interface
To printhead driver
Current printing image data
image mask
120
Table memory

Fig. 3

	Initial	Single"1"	Successive"1"	Single"0"	Successive"0"
Heat weighting value	0	+1	+1	+0	-1

Fig. 4

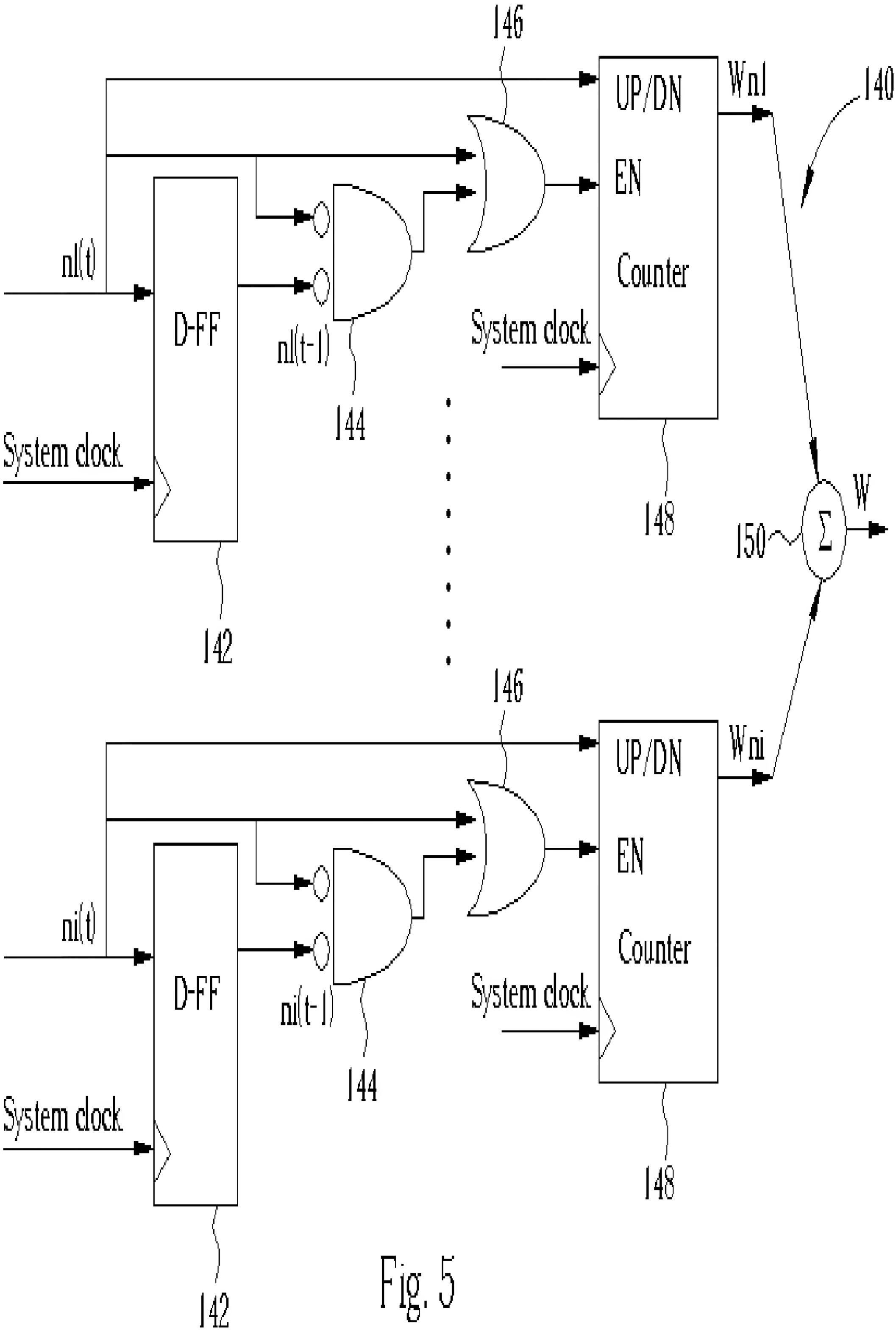
146
UP/DN
EN
Counter
Wnl
140
nl(t)
D-FF
nl(t-1)
System clock
144
148
142
W
150
Σ
146
UP/DN
EN
Counter
Wni
ni(t)
D-FF
ni(t-1)
System clock
144
System clock
148
142

Fig. 5

W(Total heat weighting value)	W<R1	R1≦W<R2	R2≦W<R3	.....
Number of masks	1	2	3	.....

Fig. 6

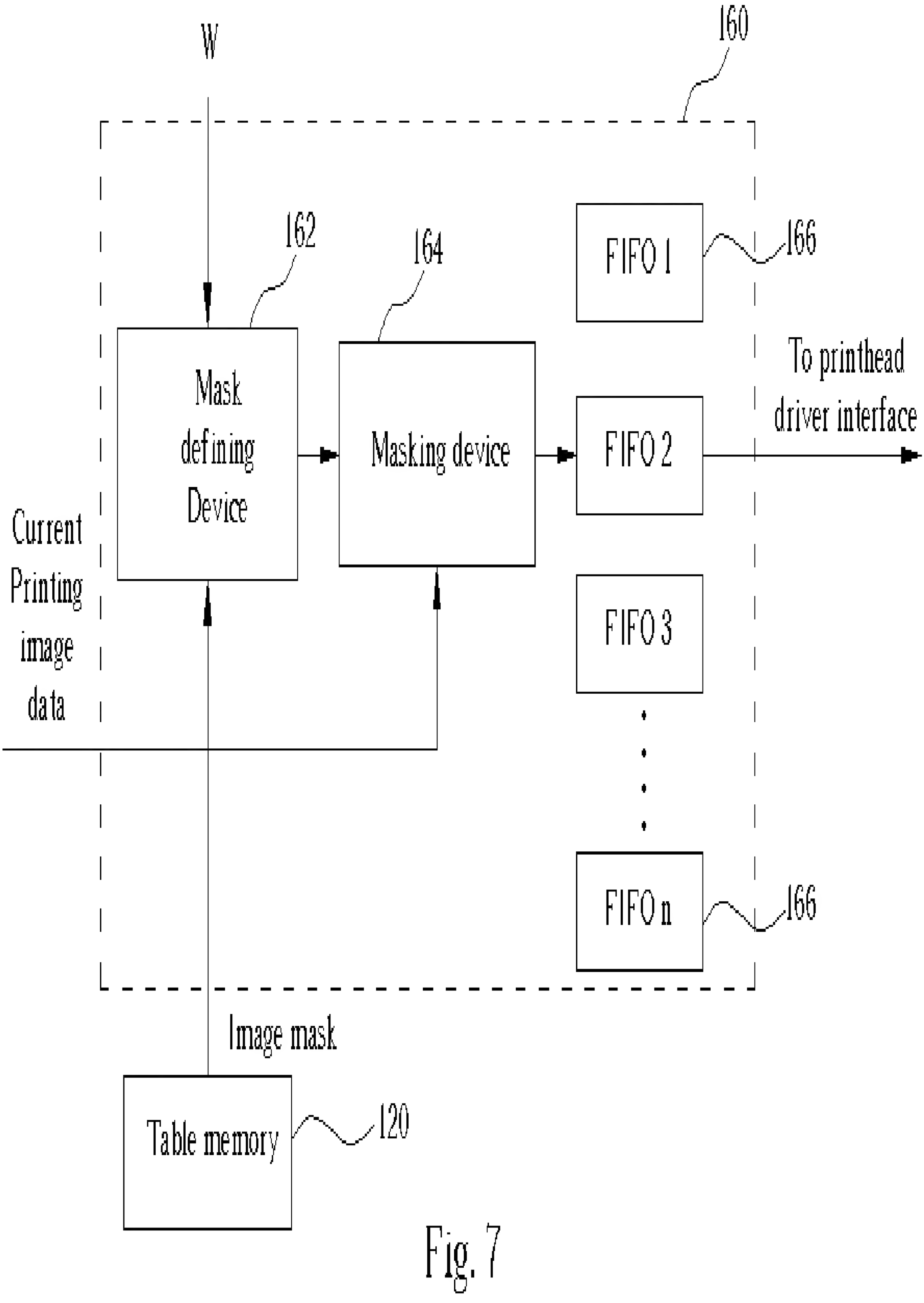
W
160
162
164
FIFO 1
166
Mask defining Device
Masking device
FIFO 2
To printhead driver interface
Current Printing image data
FIFO 3
FIFO n
166
Image mask
Table memory
120

Fig. 7

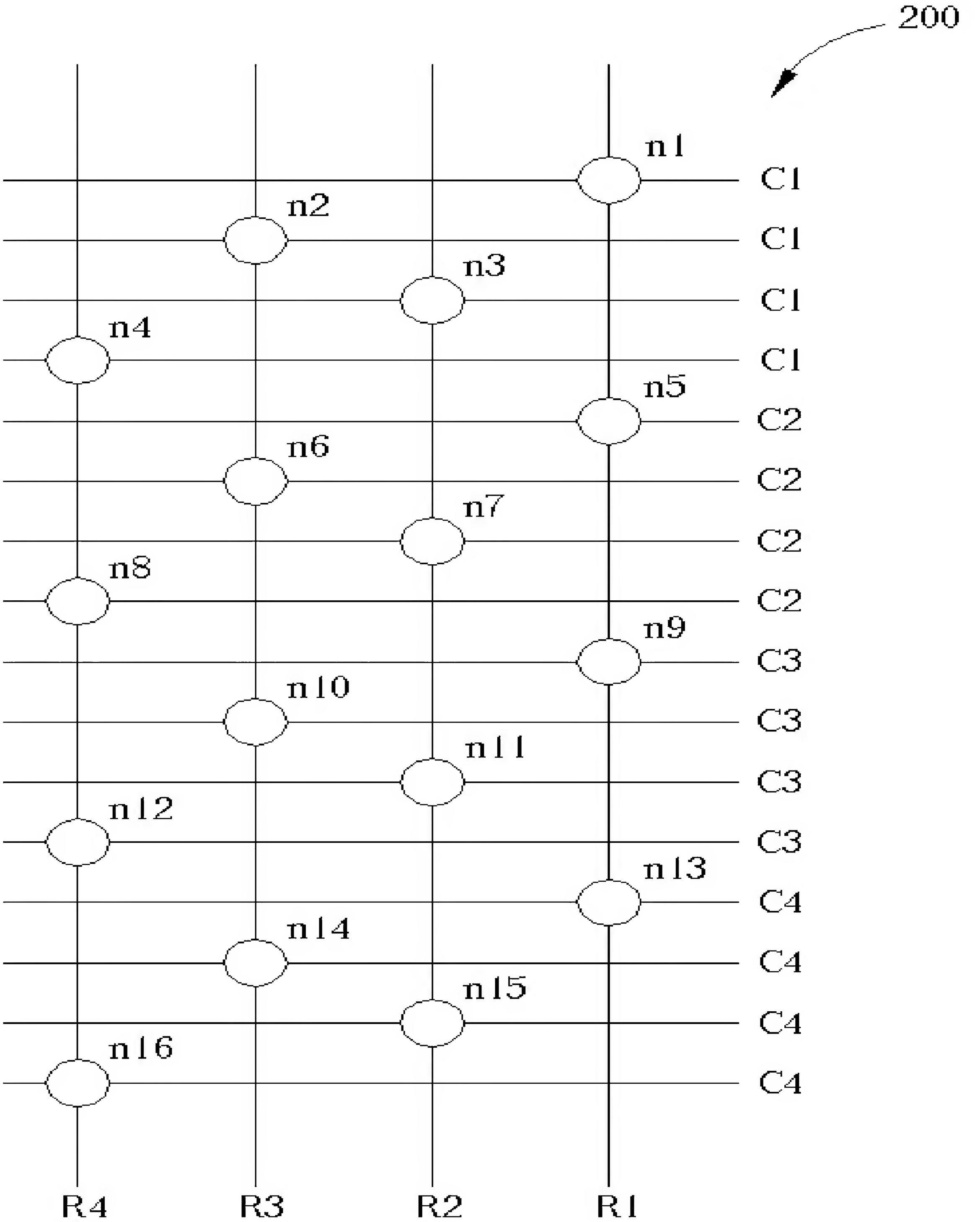
200
n1
n2
n3
n4
n5
n6
n7
n8
n9
n10
n11
n12
n13
n14
n15
n16
C1
C1
C1
C1
C2
C2
C2
C2
C3
C3
C3
C3
C4
C4
C4
C4
R4
R3
R2
R1

Fig. 8

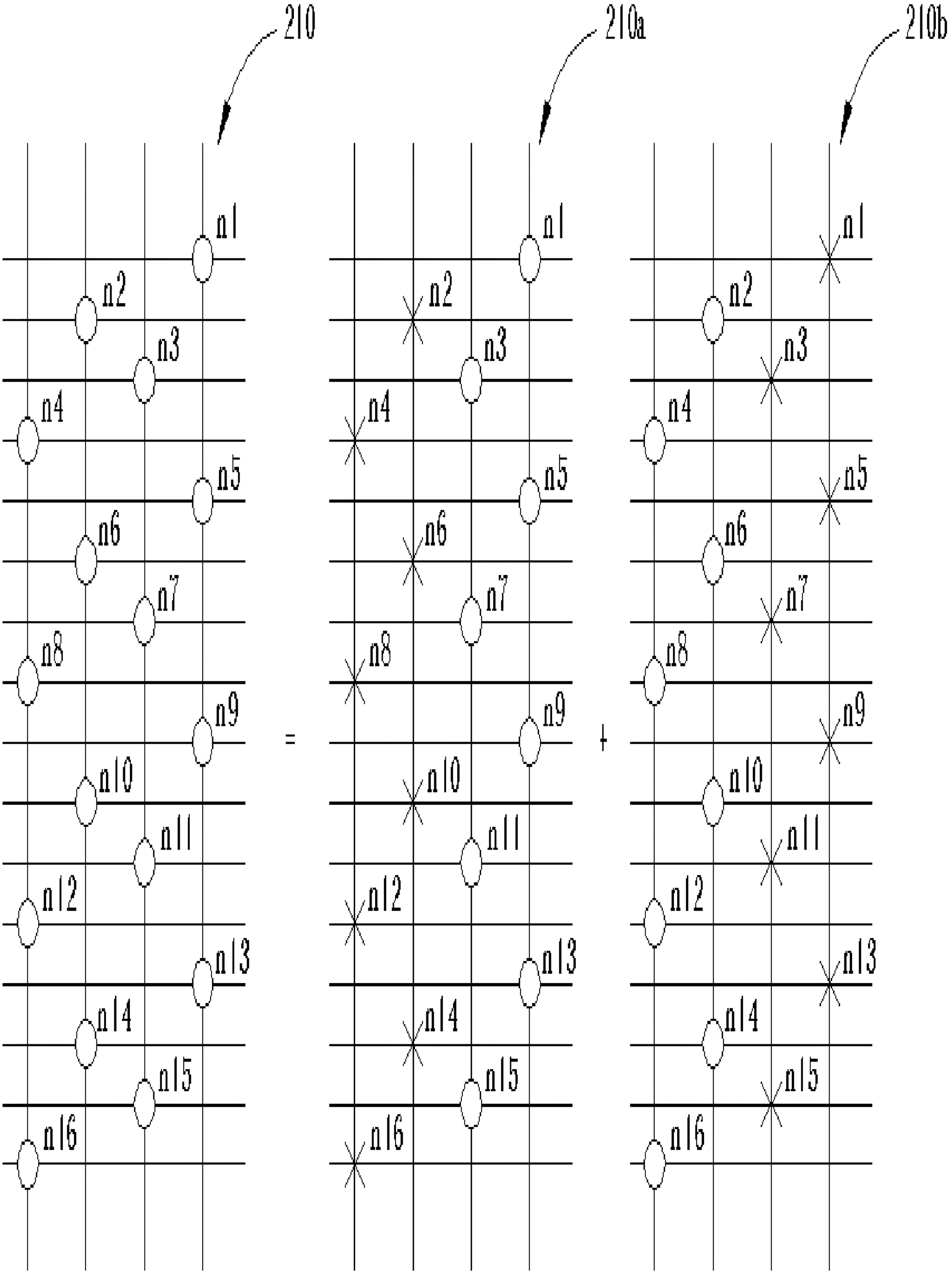
210
n1
n2
n3
n4
n5
n6
n7
n8
n9
n10
n11
n12
n13
n14
n15
n16
=
210a
n1
n2
n3
n4
n5
n6
n7
n8
n9
n10
n11
n12
n13
n14
n15
n16
+
210b
n1
n2
n3
n4
n5
n6
n7
n8
n9
n10
n11
n12
n13
n14
n15
n16

Fig. 9

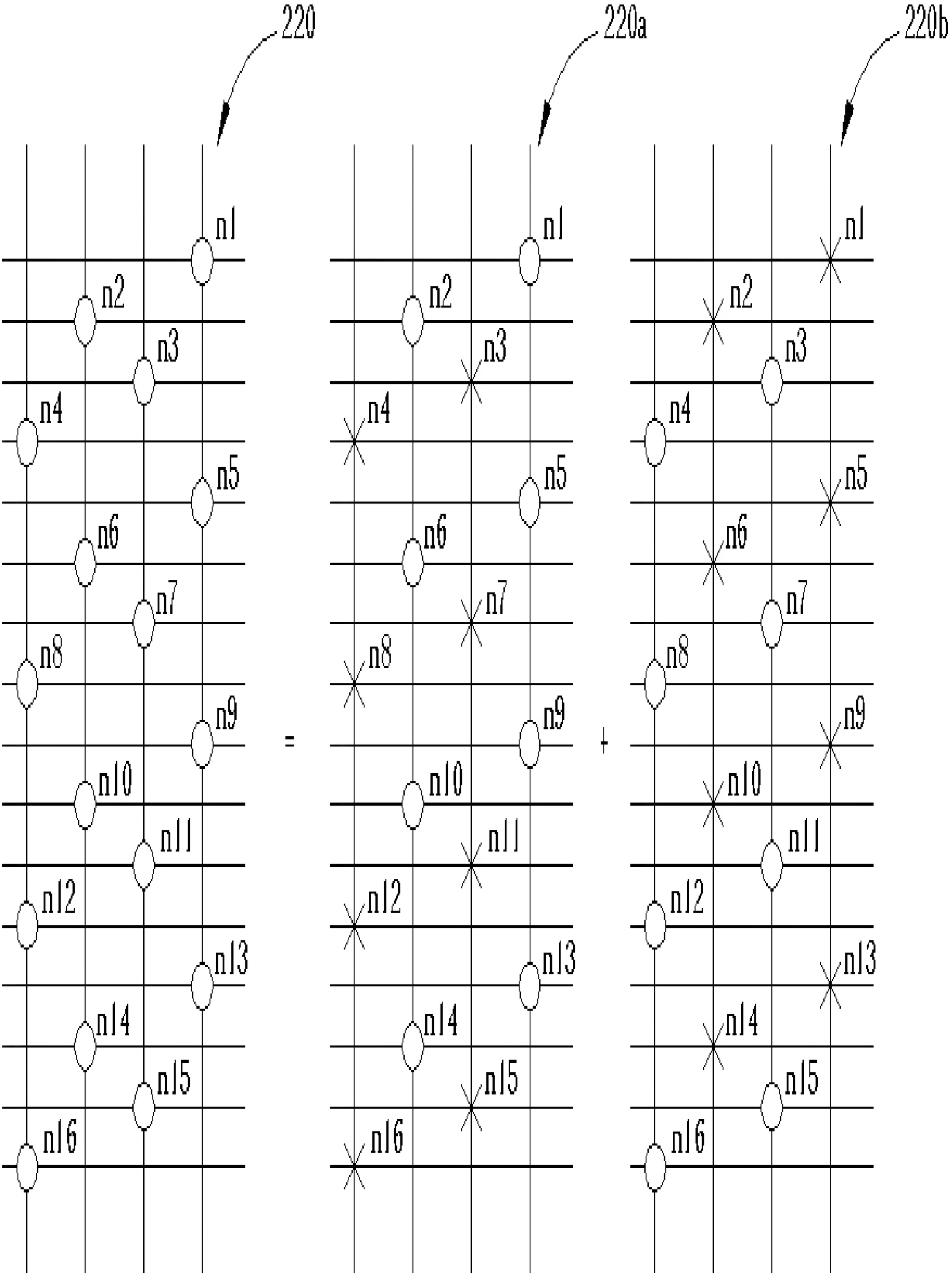
220
220a
220b
n1
n2
n3
n4
n5
n6
n7
n8
n9
n10
n11
n12
n13
n14
n15
n16
=
+

Fig. 10

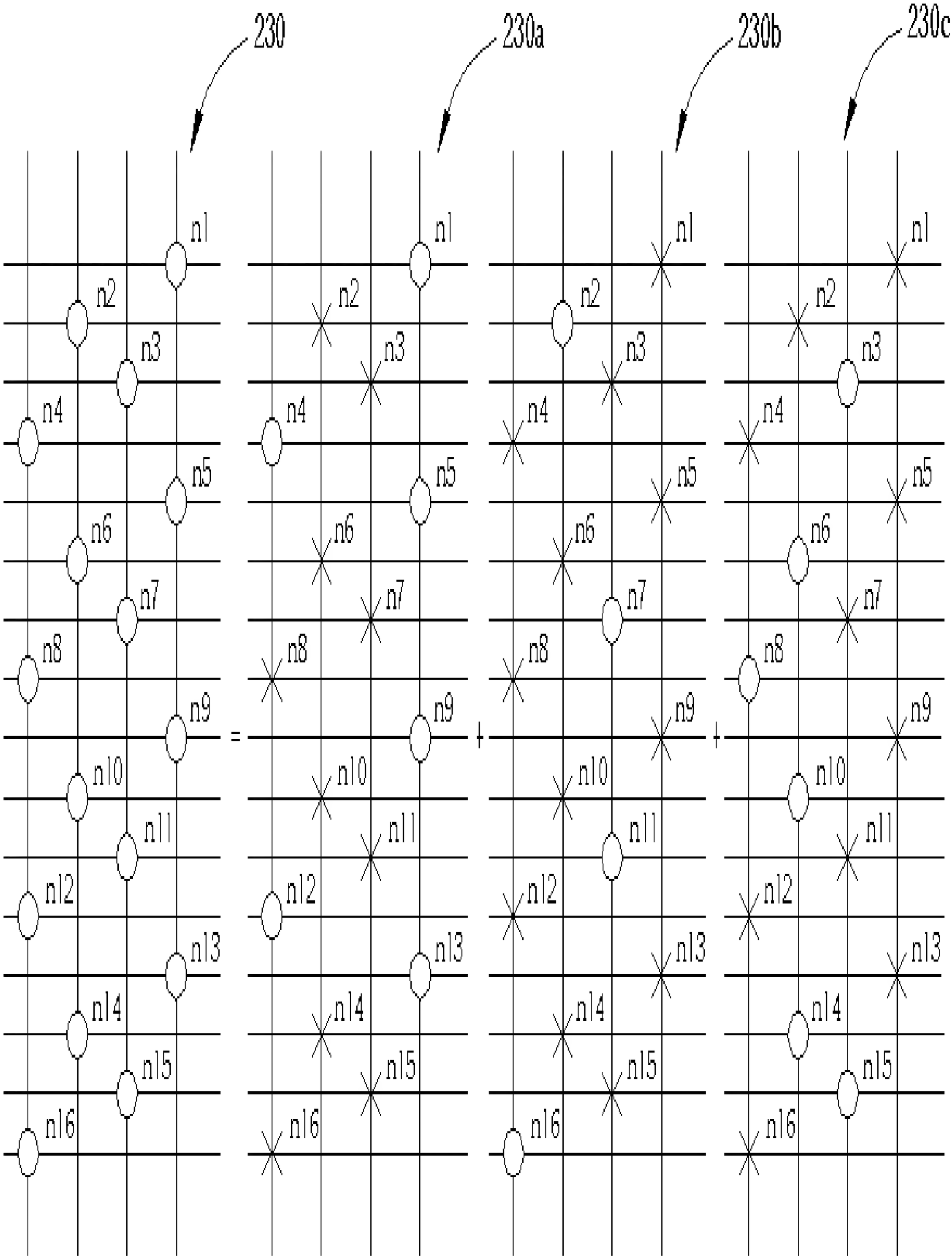
230
230a
230b
230c
n1
n2
n3
n4
n5
n6
n7
n8
n9
n10
n11
n12
n13
n14
n15
n16
=
+
+

Fig. 11